

Detailed Estimate for Grade Crossing Warning Devices

City/State: BEMENT, IL
MilePost: D-356.67
State Proj. No.:
S&E Proj. No.: 04.0588
Man Days: 84

Road: TR 60
DOT/AAR: 479156A
County: PIATT
AFE: F01766
File Number: 061-04.525

*****Purchases - Other*****

Meals and Lodging:	\$6,960.00	
Rental of Equipment:	\$15,210.00	
(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 21 Days)		
Construction Supervision Vehicle:	\$290.00	
Contingencies:	\$530.00	
Purchases - Other Total:		\$22,990.00

***** Material and Additives*****

Material Cost:	\$88,810.00	
Sales and Use Tax:	\$4,440.00	
Material Handling Freight:	\$8,440.00	
Material Total:		\$101,690.00

*****Labor and Additives*****

Labor Cost:	\$17,890.00	
(4 man crew at \$852.00 a day for: 21 days)		
Payroll Tax & Overheads:	\$15,490.00	
Preliminary Engineering:	\$9,390.00	
Construction Supervision:	\$5,050.00	
Labor Total:		\$47,820.00
Subtotal:		\$172,500.00
Credit:		\$0.00
(Salvage/Scrap)		
Project Total:		\$172,500.00

Estimated on: 02-Dec-03

Estimated by: ndr3j

Estimate valid for 1 year from date of estimate

Highway Crossing Signalization Program - Material List

Do not substitute items without permission from S & E Engineering

City:	BEMENT
Road:	TR 60
Milepost:	D-356.67
Drawing Number:	LDFS35667
State Project Number:	
County:	PIATT
A A R Number:	479156A
Project Number:	04.0588
File Number:	061-04.525
A F E Number:	F01766
Store Number:	06918
Supervisor:	B.E. LANE
Tax Code:	1200
<p>Vendor to supply the following copies after pricing:</p> <p>1 Set - Material Management with original invoice</p> <p>2 Sets - with plans shipped in car with material</p> <p>1 Set - S&E Gen. Supt. Construction w/ copy of invoice</p>	

02-Dec-03

Exh. B-1, p 4

Location: BEMENT		IL	S&E Proj. No.: 04.0588		AFE No.: F01766	Drawing No.: LDFS35867	Page 2/4			
Store No.: 06918		P.O. Number:		Date Required:		Date Shipped:		Vendor : Safetran Systems Corp.		
Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed		Quantity Returned (Credit)	Special Instructions
300	465-791835-4	FT	\$1.96	\$587.40	CABLE, UG AC ENTRANCE 3C#6-7X OKONITE FMFP-L 094-078 TR W/G 1 X 8 7X W010 BRZ TAPE 600V PRODUCT CODE 206-11-6070		Date Quan.	Date Quan.		
80	165-544477-4	FT	\$2.00	\$159.65	CONDUIT, 4"x10" PVC, SCHEDULE 80 BELL CONNECTOR AT ONE END, 1/2 PT. GLUE IN KIT 670-123298-4					
30	670-100000-4	EA	\$2.00	\$60.00	CONDUIT, PRE-EMPTION - STATE OF ILLINOIS , 4" x 10" PVC					
4	670-090450-4	EA	\$49.62	\$198.50	CONNECTOR,WELDED FAR RAIL HARMON A1000-2W					
4	670-486646-4	EA	\$40.66	\$162.64	CONNECTOR,WELDED NEAR RAIL HARMON A1000-1W					
2	670-793404-4	EA	\$838.38	\$1,676.76	COUNTERWEIGHT PKAGE, 17-24"GATE S'TRAN S- MECH ONLY, STAINLESS, TO INCLUDE HUB, SUPPORT ARMS					
4	670-760012-4	EA	\$34.90	\$139.59	COVER, FOR 1 WAY FLASHING LIGHT ASSY. 18 OZ. BLACK VINYL COATED NYLON. =====TO COVER 2 LAMPS=====					
3	670-080337-4	EA	\$0.73	\$2.18	DECAL, X'ING SIGNAL MALFUNCTION 11" X 4", GATE MOUNT					
3	670-077544-4	EA	\$0.54	\$1.63	DECAL, X'ING SIGNAL MALFUNCTION 6" X 6", MAST MOUNT					
1	670-986650-4	EA	\$361.26	\$361.26	DISPOSAL, CONSTRUCTION DEBRIS AND CLEANING X'ING EQUIPMENT CONTAINER					
1	670-000004-4	EA	\$281.44	\$281.44	FCC LICENSE FOR MONITOR/RADIO					
8	670-000003-4	EA	\$255.85	\$2,046.80	FILL/STONE #57, QUANTITY IS BASED ON TRUCK LOAD PLUS DELIVERY COST					
2	670-015231-4	EA	\$381.69	\$763.37	FOUNDATION,DIXIE,S-2 GATE 56" ASSEMBLED					
1	670-477991-4	EA	\$292.81	\$292.81	KIT, GROUNDING ASSY FOR AL I/S INCLUDES 8 GRD RDS,200#4WIRE, 12 4 WIRE ONE-SHOTS. ERICO SBK206					

APPROVED BY STATE | APPROVED BY RAILROAD | CAR NUMBER | SEAL NUMBER

Exh-B-1, P 5

Location: BEMENT			IL	S&E Proj. No.: 04.0588	AFE No.: F01766	Drawing No.: LDFS35667	Page 3/			
Store No.: 06918			P.O. Number:		Date Required:	Date Shipped:	Vendor: Safetran Systems Corp.			
Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed		Quantity Returned (Credit)	Special Instructions
1	670-123298-4	EA	\$256.93	\$256.93	KIT, HARDWARE SUPPLIES REQUIRED X'ING P'CKAGES. WEB CONNECTORS FOR SHUNT(8EA) TAPE, AMPS,P/GUM PAINT,SLEEVES,TAGS,GLUE, 100 EA WHITE TAGS,)NE CAN BLUE MARKING PAINT ETC...		Date Quan.	Date Quan.		
2	670-764166-4	EA	\$907.09	\$1,814.18	LAMP ASSY, 5" MAST MTG. 2W IND. 20" BKGRD, FLX-12 W/BULB S'TRAN #042003-487XNS					
6	165-643547-4	EA	\$8.43	\$50.60	LAMP, 18 WATT 10 VOLT S-11 SC BAY 18S11/1SC CLEAR RWY SIGNAL UJ-71463 GE					
4	255-590880-4	EA	\$15.62	\$62.47	LOCK, AMERICAN LOCK MODEL H-10KA KEYS ALIKE TO PRIVATE KEYWAY D456 AND STAMPED "NS SIG"					
2	670-637778-4	EA	\$1,055.55	\$2,111.09	MAST, 5" ALUMINUM 13'10" WITH DOUBLE JCT. BOX BASE. S'TRAN P# 070519-11AX.					
2	670-521147-4	EA	\$2,932.81	\$5,865.62	MECHANISM, GATE MODEL S40, WITH CONTACT HEATER, COMPLETE W/RELAY S'TRAN # 074000-W00090					
4	670-001347-4	EA	\$57.98	\$231.90	PACKAGE, HARDWARE SIGN 5 IN. MOUNTING, SERRMI A1250-5, HARMON @200965-000, OR					
1	255-646807-4	EA	\$9.49	\$9.49	PADLOCK, SAFETRAN PART NO. 030399-29X SCREW TYPE FOR CIR CONTROLLER AND BTY. BOX					
1	670-514605-4	EA	\$8.43	\$8.43	PINNACLE, W-C SECT 1-11, 4" & 5" REF K1 110-8 OR SAFETRAN NO. @035045-503X					
1	670-000013-4	EA	\$10,234.00	\$10,234.00	POLELINE CONSTRUCTION BY LOCAL POWER COMPANY FOR SERVICE					
1	165-902002-4	EA	\$308.00	\$308.00	PROTECTOR, SURGE 120/240VAC, ERICO PIN EPD120/240TDFL					
4	465-002899-4	EA	\$20.88	\$83.51	REEL, CABLE DISPOSABLE FOR CROSSING SIGNAL PACKAGES					
2	435-805560-4	EA	\$6.25	\$12.50	SAND, 25LB BAG FOR CABLE ENTRANCE INTO THE SHELTER					
1	670-391911-4	EA	\$5,329.57	\$5,329.57	SEARII AUTOMATED INSPECTOR SYSTEM KIT, w/ 1- ILOD, 1-BSX, 2-GTS, 2- MTSS, 1-GFT, 1-VHFC, 2- RECORDER INTERFACE MODULE, 1- ECHELON CONNECTOR					

APPROVED BY STATE	APPROVED BY RAILROAD	CAR NUMBER	SEAL NUMBER
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LDFS35667

Drawing No.:

A/E No.: F01766

S&E Proj. No.: 04.0588

IL

BEMENT

Vendor: Safetran Systems Corp.

Date Shipped:

Date Required:

P.O. Number:

Store No.: 06918

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed Date Quan.	Quantity Returned (Credit)	Special Instructions
1	670-281280-4	EA	\$7,006.00	\$7,006.00	SHELTER BARE 6X6, ALUMN, FARADAY, W/CABLE CHUTES BEHIND TERMINAL BOARD, W/GEN. CONN. W/ADJUSTABLE PIERS, SAFETRAN P/N 058400-66-78A				
4	670-586967-4	EA	\$34.74	\$138.98	SHUNT COVER W/LAG SCREWS, 19"X19", SERRMI #40271, ORDER 1 PER SHUNT				
4	670-645460-4	EA	\$526.00	\$2,103.99	SHUNT, MULTI-FREQ. #62775-8621 SAFETRAN NARROW BAND				
2	670-806648-4	EA	\$56.42	\$112.84	SIGN, X-BUCK, LESS HARDWARE, SAFETRAN 035200-X CR 02-490546				
2	670-353390-4	EA	\$43.04	\$86.09	SIGN, "2 TRACKS" LESS HARDWARE SAFETRAN 035207-2X				
2	670-006438-4	EA	\$10.54	\$21.08	TAPE, 4" X 96" REFLECTIVE APPLY TO BACK OF X-BUCK SIGN. ONLY IN IA., IN., IL., AL. 035200-555X				
1	670-330382-4	RL	\$10.75	\$10.75	TAPE, THOR 3" DURATEC, ORANGE 1000' LENGTHS. "WARNING STOP DIGGING"				
1	670-405488-4	EA	\$29,396.00	\$29,396.00	WIRED RACK, 6X6 FARADAY, COMPLETE/GCP3000D2 DOUBLE TRK, 20 AMP SSCCIII, 4 ISL MOD, 2 CRAGG CHARGER 2 RELAY RACKS, SAFETRAN P/N T15384, USE WITH US 670-786834-4 OR P/N 058400-66-78A, 670-281280-4				

Total Material \$88,813.15

APPROVED BY STATE

APPROVED BY RAILROAD

CAR NUMBER

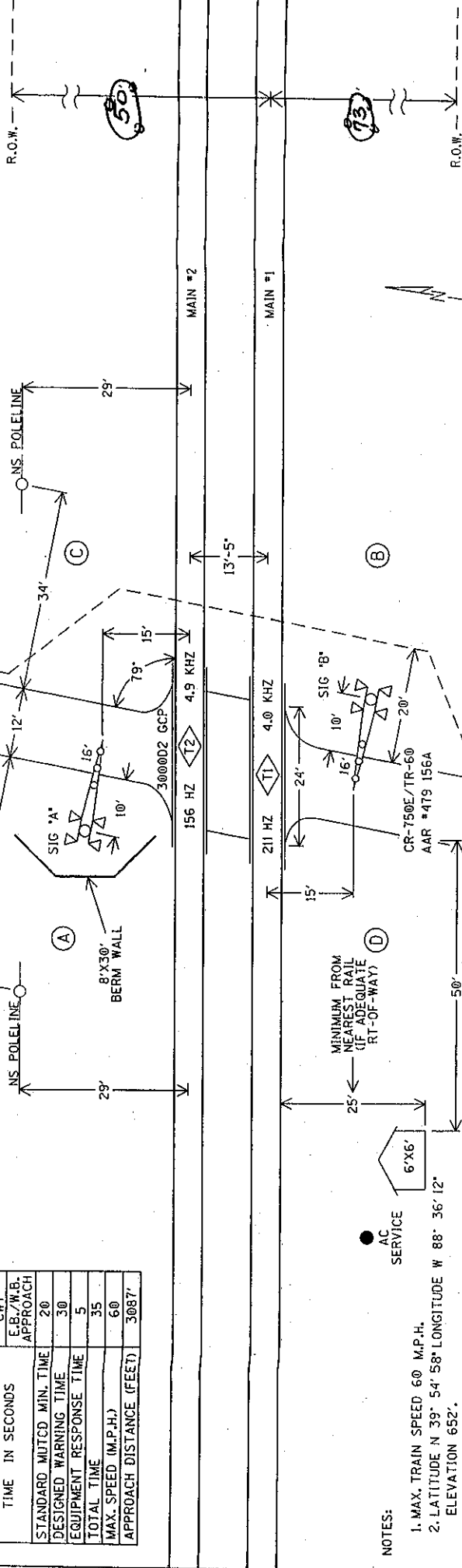
SEAL NUMBER

TO DECATUR

TO PERU

APPROACH LENGTHS ALLOW FOR:

TIME IN SECONDS	CWT
STANDARD MUTCD MIN. TIME	E.B./W.B. APPROACH
DESIGNED WARNING TIME	20
EQUIPMENT RESPONSE TIME	30
TOTAL TIME	5
MAX. SPEED (M.P.H.)	35
APPROACH DISTANCE (FEET)	60
	3087

NS LINES ARE
23' ABOVE ROADWAY.NS LINES ARE
23' ABOVE ROADWAY.

NOTES:

- MAX. TRAIN SPEED 60 M.P.H.
- LATITUDE N 39° 54' 58" LONGITUDE W 88° 36' 12" ELEVATION 652'.
- SIGNAL 'A' TO HAVE BELL.
- LOCATE U/G UTILITIES & CABLE BEFORE DIGGING.
- CROSSING LOCATED IN PIATT COUNTY.
- NEAREST STREET ADDRESS IS 843-CR-750E
- NEAREST INTERSECTING STREET IS CR-7
- DISTANCE TO NEAREST INTERSECTING STREET IS 2100' FT.
- PLACE THE CONTAINER AT NS YARD 500W WILSON ST. APPROXIMATELY 1 1/2 MILES FROM XING.
- H.T. SWITCH AND SIDING ON EXISTING PROFILE IS TO BE EXTENDED. CURRENT LOCATION IS APPROXIMATELY 263' AWAY FROM XING AND IS TO BE EXTENDED WITHIN APPROXIMATELY 200' AWAY FROM XING.
- COMMERCIAL AC POWER FROM ILLINOIS POWER CO. IS APPROX. 1000' SOUTH OF CROSSING, ALONG HWY. 750E.

(A) (B) (C) (D) = QUADRANT MARKERS

IN SERVICE _____ SIGNED _____ DATE _____

☐ S&E ENGINEERING COPY

☐ CONSTRUCTION OFFICE COPY

☐ RETURN TO S&E ENG. AFTER COMPLETION

☐ FIELD COPY

☐ RETURN TO CASE AFTER COMPLETION

☐ PROJECT ENGINEER COPY

SCALE: 1" = 20'

PROJECT #04.0588

LAY OUT

FILE #061-04,525

No.

NS NORFOLK SOUTHERN

OFFICE OF ASST. VICE PRESIDENT

COMM. & SIGNAL, ATLANTA, GA.

MP: D-356.67

DECATUR, IL TO PERU, IN

BEMENT, IL FLGS AT CR-750E/CR-60

FILE R-

CARD OF

SHEET

1 of 19

PROPERTY

NORFOLK SOUTHERN RAILWAY CO.

REVISION

INITIALS

RECEIVED
RFO 12 2003
ILLINOIS COMMERCIAL CONSTRUCTION
RAIL SAFETY SECTION

00 = 1 H
01 = 0 U
C.P. 2-03
12-2-03

Exh. B-1, D 7

Detailed Estimate for Grade Crossing Warning Devices

City/State: MILMINE, IL
MilePost: D-360.27
State Proj. No.:
S&E Proj. No.: 04.0556
Man Days: 112

Road: TR 28
DOT/AAR: 479160P
County: PIATT
AFE: F01767
File Number: 061-04.526

*****Purchases - Other*****

Meals and Lodging:	\$9,280.00	
Rental of Equipment:	\$20,280.00	
(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 28 Days)		
Construction Supervision Vehicle:	\$380.00	
Contingencies:	\$560.00	
Purchases - Other Total:		\$30,500.00

***** Material and Additives*****

Material Cost:	\$108,060.00	
Sales and Use Tax:	\$5,400.00	
Material Handling Freight:	\$10,270.00	
Material Total:		\$123,730.00

*****Labor and Additives*****

Labor Cost:	\$23,860.00	
(4 man crew at \$852.00 a day for: 28 days)		
Payroll Tax & Overheads:	\$20,660.00	
Preliminary Engineering:	\$11,610.00	
Construction Supervision:	\$6,740.00	
Labor Total:		\$62,870.00
Subtotal:		\$217,100.00
Credit: (Salvage/Scrap)		\$0.00
Project Total:		\$217,100.00

Estimated on: 09-Dec-03

Estimated by: ndr3j

Estimate valid for 1 year from date of estimate



Highway Crossing Signalization Program - Material List

Do not substitute items without permission from S & E Engineering

City:	MILMINE
Road:	TR 28
Milepost:	D-360.27
Drawing Number:	LDFS36027
State Project Number:	
County:	PIATT
A A R Number:	479160P
Project Number:	04.0556
File Number:	061-04.526
A F E Number:	F01767
Store Number:	06919
Supervisor:	B.E. LANE
Tax Code:	1200
Vendor to supply the following copies after pricing: 1 Set - Material Management with original invoice 2 Sets - with plans shipped in car with material 1 Set - S&E Gen. Supt. Construction w/ copy of invoice	

09-Dec-03

Exh. B-2, p 2

Drawing No.: LDFS38027

Vendor: Safetran Systems Corp.

AFE No.: F01767

Date Shipped:

Date Required:

S&E Proj. No.: 04.0556

IL

Location: MILMINE

P.O. Number:

Store No.: 06919

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed Date Quan.	Quantity Returned (Credit)	Special Instructions
3	670-360693-4	EA	\$4.82	\$14.46	AARDOT NUMBER PLATE/DECAL, ORDER 3 PER PROJECT. 60 DAY LEAD TIME. SUPPLIED BY STRAN.				
1	165-006505-4	EA	\$1,028.00	\$1,028.00	AC SERVICE, COMPLETE LESS METER BASE, ASSEMBLED ON 30' POLE				
2	670-001321-4	EA	\$246.66	\$493.32	ARM, GATE FIBERGLASS-ALUMINUM 17-24 FT., L&W OR US&S OR SAFETRAN 076600-240017 OR				
12	670-917618-4	ea	\$12.59	\$151.05	ARRESTER, HD SAFETRAN 022615-1X L/BASE FOR TRACK LEAD				
13	105-871901-4	EA	\$154.22	\$2,004.81	BATTERY, GNB 265AH MODEL 50A11 SINGLE CELL 2.25 VOLTS				
1	670-503047-4	EA	\$185.75	\$185.75	BELL, CROSSING ELECTRONIC GENERAL SIGNAL, EB-3-360-5				
48	165-000341-4	EA	\$10.54	\$505.97	BERM WALL ANCHOR ROD, WITH NUT A.B. CHANCE #6417 (ORDER 4 PER BERM WALL)				
312	165-479603-4	EA	\$7.10	\$2,215.95	BERM WALL DEADEND, STRANDVISE GRAYBAR# 5201T (ORDER 2 PER POWER SOURCE) OR (26 PER BERM WALL)				
12	670-010851-4	EA	\$1,529.50	\$18,354.02	BERM WALL, ARMCO BIN TYPE II - 12 GAUGE GALVANIZED STEEL 4'-4" HIGH BY 10' LONG (FOR HOUSING)				
48	215-003229-4	EA	\$11.72	\$562.46	BERM WALL/BACK GUY ANCHOR, A.B. CHANCE# 88135 (ORDER 4 PER BERM WALL) OR (1 PER POWER SOURCE)				
2	670-980689-4	EA	\$63.71	\$127.41	BRACKET HIGH WIND, (RIGID 3'), WIG- 191036, WALRUS TUSK TYPE				
2	670-561375-4	EA	\$1,201.20	\$2,402.40	BRACKET, GATE SAVER, NEG385102GS, SPRING LOADED SWING AWAY ADAPTER FOR FIBERGLASS/ALUMINUM GATES, USE WITH GATE 28' AND LESS				
1	165-000432-4	EA	\$13.49	\$13.49	BREAKER, 30 AMP, 120 TO 240V AC MAX SINGLE POLE, SQ.D QO130				
1300	465-292862-4	LF	\$1.00	\$1,303.77	CABLE, U-2-6 TWISTED, S-23 OKONITE 113-12-3933 SOLID TINNED CONDUCTOR				

APPROVED BY STATE

APPROVED BY RAILROAD

CAR NUMBER

SEAL NUMBER

Exh. B-2, 6 W

Drawing No.: LDFS36027

AFE No.: F01767

IL S&E Proj. No.: 04.0556

Location: MILMINE

Vendor: Safetran Systems Corp.

Date Shipped:

Date Required:

P.O. Number:

Store No.: 06919

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed			Quantity Returned (Credit)	Special Instructions
							Date	Quan.	Date		
300	465-292929-4	LF	\$3.00	\$899.58	CABLE, U.G. 5 COND. NO. 6 AWG SOLID COPPER CABLE TO MEET NS CORP. SPEC. FOR SIGNAL						
300	465-939422-4	LF	\$2.56	\$767.55	CABLE, UG 12 CONDUCTOR NO 14 AWG SOLID EACH CONDUCTOR WITH 5/64 IN INSULATION 10 MIL						
300	465-791835-4	FT	\$1.96	\$587.40	CABLE, UG AC ENTRANCE 3C#6-7X OKONITE FMPE-L 094-078 TR W/G 1 X 8 7X W010 BRZ TAPE 600V PRODUCT CODE 206-11-6070						
12	670-001454-4	EA	\$1.64	\$19.65	CLIP, CADWELD TRACK CIRCUIT RETAINER PART NO. SBA206 1/2 DIA 50 CLIPS PER PACKAGE, CR 02-729208						
80	165-544477-4	FT	\$2.00	\$159.65	CONDUIT, 4"x10" PVC, SCHEDULE 80 BELL CONNECTOR AT ONE END, 1/2 PT. GLUE IN KIT 670-123298-4						
30	670-100000-4	EA	\$2.00	\$60.00	CONDUIT, PRE-EMPTION - STATE OF ILLINOIS, 4" x 10" PVC						
16	670-918555-4	EA	\$3.39	\$54.20	CONNECTOR, WEB TRACK 1IN X 4IN LONG, FOR SHUNT CONN TO RAIL, INCLUDES WELD METAL & MOLDS (ERICO #SBTBU4A)						
10	670-090450-4	EA	\$49.62	\$496.25	CONNECTOR, WELDED FAR RAIL HARMON A1000-2W						
10	670-486646-4	EA	\$40.66	\$406.60	CONNECTOR, WELDED NEAR RAIL HARMON A1000-1W						
2	670-793404-4	EA	\$838.38	\$1,676.76	COUNTERWEIGHT PKAGE, 17-24" GATE STRAN S- MECH ONLY, STAINLESS, TO INCLUDE HUB, SUPPORT ARMS						
1	670-006868-4	EA	\$186.05	\$186.05	COUPLER, PSO II TUNED RECEIVER SAFETRAN NO. 7A355A-430 HZ						
4	670-760012-4	EA	\$34.90	\$139.59	COVER, FOR 1 WAY FLASHING LIGHT ASSY. 18 OZ. BLACK VINYL COATED NYLON. === TO COVER 2 LAMPS ===						
3	670-080337-4	EA	\$0.73	\$2.18	DECAL, X'ING SIGNAL MALFUNCTION 11" X 4", GATE MOUNT						
3	670-077544-4	EA	\$0.54	\$1.63	DECAL, X'ING SIGNAL MALFUNCTION 6" X 6", MAST MOUNT						

APPROVED BY STATE

APPROVED BY RAILROAD

CAR NUMBER

SEAL NUMBER

Exh. B-2, p. 1

Exh. B-2, P. 5

Drawing No.: LDFS36027

AFE No.: F01767

IL S&E Proj. No.: 04.0556

Location: MILMINE

Vendor: Safetran Systems Corp.

Date Shipped:

Date Required:

P.O. Number:

Store No.: 06919

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed		Quantity Returned (Credit)	Special Instructions
							Date Quan.	Date Quan.		
1	670-986650-4	EA	\$361.26	\$361.26	DISPOSAL, CONSTRUCTION DEBRIS AND CLEANING X'ING EQUIPMENT CONTAINER					
6	670-228165-4	EA	\$10.73	\$64.35	EQUALIZER, SAFETRAN 022700-1X LESS BASE, MODERN NO. 700-1 SHUNT ARRESTER TRACK CIRCUITS CR 02- 197950					
1	670-000004-4	EA	\$281.44	\$281.44	FCC LICENSE FOR MONITOR/RADIO					
10	670-000003-4	EA	\$255.85	\$2,558.50	FILL/STONE #57, QUANTITY IS BASED ON TRUCK LOAD PLUS DELIVERY COST					
1	670-013706-4	EA	\$244.03	\$244.03	FILTER, ELECTRO CODE 114HZ REJECTION PART # TF- 114					
1	670-012724-4	EA	\$244.03	\$244.03	FILTER, ELECTRO CODE 156HZ REJECTION PART # TF- 156					
1	670-012732-4	EA	\$244.03	\$244.03	FILTER, ELECTRO CODE 211HZ REJECTION PART# TF- 211					
2	670-015231-4	EA	\$381.69	\$763.37	FOUNDATION, DIXIE, S-2 GATE 5'6" ASSEMBLED					
1	670-477991-4	EA	\$292.81	\$292.81	KIT, GROUNDING ASSY FOR AL I/S INCLUDES 8 GRD RDS, 200#4 WIRE, 12 4 WIRE ONE-SHOTS. ERICO SBK206					
1	670-123298-4	EA	\$256.93	\$256.93	KIT, HARDWARE SUPPLIES REQUIRED X'ING P'CKAGES. WEB CONNECTORS FOR SHUNT(8EA) TAPE, AMPS, P'GUM PAINT, SLEEVES, TAGS, GLUE, 100 EA WHITE TAGS, JNE CAN BLUE MARKING PAINT ETC...					
2	670-764166-4	EA	\$907.09	\$1,814.18	LAMP ASSY, 5" MAST MTG. 2W IND. 20" BKGRD, FLX-12 W/BULB S'TRAN #042003-487XNS					
6	165-643547-4	EA	\$8.43	\$50.60	LAMP, 18 WATT 10 VOLT S-11 SC BAY 18S11/ISC CLEAR RWY SIGNAL UJ-71463 GE					
12	670-440826-4	EA	\$1.01	\$12.16	LINK, SAFETRAN 024620-1X INSL TESTING COMP 1 IN CENTER SIGNAL CIRCUITS CR 02-286662					
4	255-590880-4	EA	\$15.62	\$62.47	LOCK, AMERICAN LOCK MODEL H-10KA KEYED ALIKE TO PRIVATE KEYWAY D456 AND STAMPED "NS SIG"					

APPROVED BY STATE

APPROVED BY RAILROAD

CAR NUMBER

SEAL NUMBER

Location: MILMINE		IL	S&E Proj. No.: 04.0556		AFE No.: F01767	Drawing No.: LDFS36027	Page 4/6		
Store No.: 06919		P.O. Number:		Date Required:		Date Shipped:	Vendor: Safetran Systems Corp.		
Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed Date Quan.	Quantity Returned (Credit) Date Quan.	Special Instructions
2	670-637778-4	EA	\$1,055.55	\$2,111.09	MAST, 5" ALUMINUM 13'10" WITH DOUBLE JCT. BOX BASE. STRAN P# 070519-11AX.				
2	670-521147-4	EA	\$2,932.81	\$5,865.62	MECHANISM, GATE MODEL S40, WITH CONTACT HEATER, COMPLETE WIRELAY STRAN # 074000-W00090				
4	670-001347-4	EA	\$57.98	\$231.90	PACKAGE, HARDWARE SIGN 5 IN. MOUNTING, SERRMI A1250-5, HARMON @200965-000, OR				
1	255-646807-4	EA	\$9.49	\$9.49	PADLOCK, SAFETRAN PART NO. 030399-29X SCREW TYPE FOR CIR CONTROLLER AND BTY. BOX				
1	670-514605-4	EA	\$8.43	\$8.43	PINNACLE, W-C SECT 1-11, 4" & 5" REF K1 110-8 OR SAFETRAN NO. @035045-503X				
1	670-973480-4	EA	\$7,665.27	\$7,665.27	PREDICTOR, DUAL FREQ. 3000 2 TRACK, SAFETRAN #80200-102-0 NO ISLAND, W/PROCESSOR 80214				
6	165-103293-4	EA	\$44.47	\$266.80	PROTECTOR, LIGHTNING & SURGE LPC 10560-51, 3 ELECTRODE WITH SPADE TERMINAL				
1	165-902002-4	EA	\$308.00	\$308.00	PROTECTOR, SURGE 120/240VAC, ERICO P/N EPD120/240TDFL				
1	670-006800-4	EA	\$959.23	\$959.23	RECEIVER, PSO II SAFETRAN NO. 7A405-430 HZ				
4	465-002899-4	EA	\$20.88	\$83.51	REEL, CABLE DISPOSABLE FOR CROSSING SIGNAL PACKAGES				
2	435-805560-4	EA	\$6.25	\$12.50	SAND, 25LB BAG FOR CABLE ENTRANCE INTO THE SHELTER				
1	670-391911-4	EA	\$5,329.57	\$5,329.57	SEARII AUTOMATED INSPECTOR SYSTEM KIT, w/ 1- ILOD, 1-BSX, 2-GTS, 2-MTSS, 1-GFT, 1-VHFC, 2- RECORDER INTERFACE MODULE, 1- ECHELON CONNECTOR				
1	670-119882-4	EA	\$70.51	\$70.51	SEARII, ECHELON CONNECTOR, SAFETRAN P/N A80063, 1/ GCP UNIT				
1	670-118145-4	EA	\$139.53	\$139.53	SEARII, GCP DATA RECORDER MODULES, SAFETRAN P/N A80255, 1/ NON REDUNDANT GCP, 2 / REDUNDANT. GCP				
APPROVED BY STATE				APPROVED BY RAILROAD		CAR NUMBER		SEAL NUMBER	

Exh. B-2, p 6

Location: MILMINE		IL	S&E Proj. No.: 04.0556		AFE No.: F01767		Drawing No.: LDFS36027		Page 5/6	
Store No.: 06919		P.O. Number:			Date Required:		Date Shipped:		Vendor: Safetran Systems Corp.	
Qty.	Class-Item-CD	Uf	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed		Quantity Returned (Credit)	Special Instructions
							Date Quan.	Date Quan.		
1	670-281280-4	EA	\$7,006.00	\$7,006.00	SHELTER BARE 6X6, ALUMN, FARADAY, W/CABLE CHUTES BEHIND TERMINAL BOARD, W/GEN. CONN. W/ADJUSTABLE PIERS, SAFETRAN P/N 058400-66-78A					
6	670-471572-4	EA	\$3.00	\$18.00	SHIELD, GROUND SERRMI P/N 61278 FOR GROUNDING A RH 4 POST TERMINAL BLOCK DIRECTLY TO FARADAY SHIELD					
6	670-472200-4	EA	\$3.00	\$18.00	SHIELD, GROUND SERRMI PART NO. 61278 FOR GROUNDING A LH 4 POST TERMINAL BLOCK DIRECTLY TO FARADAY SHIELD					
8	670-586967-4	EA	\$34.74	\$277.96	SHUNT COVER W/LAG SCREWS, 19"X19", SERRMI #40271, ORDER 1 PER SHUNT					
5	670-652773-4	EA	\$470.56	\$2,352.80	SHUNT, MULTI-FREQ. #62775-1543 SAFETRAN NARROW BAND					
3	670-645460-4	EA	\$526.00	\$1,577.99	SHUNT, MULTI-FREQ. #62775-8621 SAFETRAN NARROW BAND					
2	670-806648-4	EA	\$56.42	\$112.84	SIGN, X-BUCK, LESS HARDWARE, SAFETRAN 035200-X CR 02-490546					
2	670-353390-4	EA	\$43.04	\$86.09	SIGN, "2 TRACKS" LESS HARDWARE SAFETRAN 035207-2X					
2	670-006438-4	EA	\$10.54	\$21.08	TAPE, 4" X 96" REFLECTIVE APPLY TO BACK OF X-BUCK SIGN. ONLY IN IA., IN., IL., AL. 035200-555X					
1	670-330382-4	RL	\$10.75	\$10.75	TAPE, THOR 3" DURATEC, ORANGE 1000' LENGTHS. "WARNING STOP DIGGING"					
12	670-478560-4	EA	\$19.47	\$233.64	TERMINAL BLOCK, ERICO 4 POST P/N B2700A2C1WH W/HARDWARE LESS LIGHTNING ARRESTOR					
1	670-006793-4	EA	\$592.41	\$592.41	TRANSMITTER, PSO II SAFETRAN NO. 7A400-430 HZ					
3	670-007238-4	EA	\$137.14	\$411.41	UNIT, THE INSTALLATION AND WIRING OF A DEVICE WHICH REQUIRE A MINIMUM OF FOUR WIRE CONNECT-					
1800	465-377911-4	FT	\$0.42	\$755.28	WIRE, ALUMOWELD GUY 7 #10 STRAND BERM WALL / POLELINE GUY WIRE (ORDER 150' PER BERM WALL) PER GLSEXTON 2-17-98					

Exh-B-2, p 7

Exh-B-2, p.8

Location: MILMINE		IL		S&E Proj. No.: 04.0556		AFE No.: F01767		Drawing No.: LDFS36027		Page 6/6	
Store No.: 06919				P.O. Number:		Date Required:		Date Shipped:		Vendor: Safetran Systems Corp.	
Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed Date Quan.	Date Quan.	Quantity Returned (Credit)	Special Instructions	
200	465-999111-4	LF	\$0.30	\$59.35	WIRE, NO.10, 1 CONDUCTOR, CASE, FLEXIBLE 37 STRAND, 3/64 IN. INSULATION-ORDER EXT.AMT. NEEDED CR 02-620502						
1	670-405488-4	EA	\$29,396.00	\$29,396.00	WIRED RACK, 6X6 FARADAY, COMPLETE/GCP3000D2 DOUBLE TRK, 20 AMP SSCCIII, 4 ISL MOD, 2 CRAGG CHARGER 2 RELAY RACKS, SAFTRAN P/N T15384, USE WITH I/S 670-786834-4 OR P/N 058400-66-78A, 670-281280-4						

Total Material \$108,061.13

APPROVED BY STATE | APPROVED BY RAILROAD | CAR NUMBER | SEAL NUMBER

Detailed Estimate for Grade Crossing Warning Devices

City/State: MILMINE, IL
MilePost: D-361.34
State Proj. No.:
S&E Proj. No.: 04.0557
Man Days: 88

Road: TR 20
DOT/AAR: 479162D
County: PIATT
AFE: F01768
File Number: 061-04.527

*****Purchases - Other*****

Meals and Lodging:	\$7,290.00
Rental of Equipment: (2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 22 Days)	\$15,930.00
Construction Supervision Vehicle:	\$300.00
Contingencies:	\$520.00
Purchases - Other Total:	\$24,040.00

***** Material and Additives*****

Material Cost:	\$93,140.00
Sales and Use Tax:	\$4,660.00
Material Handling Freight:	\$8,850.00
Material Total:	\$106,650.00

*****Labor and Additives*****

Labor Cost: (4 man crew at \$852.00 a day for: 22 days)	\$18,740.00
Payroll Tax & Overheads:	\$16,230.00
Preliminary Engineering:	\$9,850.00
Construction Supervision:	\$5,290.00
Labor Total:	\$50,110.00
Subtotal:	\$180,800.00
Credit: (Salvage/Scrap)	\$0.00
Project Total:	\$180,800.00

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RAIL SAFETY SECTION

Estimated on: 26-Nov-03

Estimated by: ndr3j

Estimate valid for 1 year from date of estimate

Do not substitute items without permission from S & E Engineering

City:	MILMINE
Road:	TR 20
Milepost:	D-361.34
Drawing Number:	LDFS36134
State Project Number:	
County:	PIATT
A A R Number:	479162D
Project Number:	04.0557
File Number:	061-04.527
A F E Number:	F01768
Store Number:	06920
Supervisor:	B.E. LANE
Tax Code:	1200
<p>Vendor to supply the following copies after pricing:</p> <p>1 Set - Material Management with original invoice 2 Sets - with plans shipped in car with material 1 Set - S&E Gen. Supt. Construction w/ copy of invoice</p>	

26-Nov-03

Exh. B-3, p2

Drawing No.: LDFS36134

AFE No.: F01768

S&E Proj. No.: 04.0557

IL

Location: MILMINE

Vendor: Safetran Systems Corp.

Date Shipped:

Date Required:

P.O. Number:

Store No.: 06920

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed Date Quan.	Date Quan.	Quantity Returned (Credit)	Special Instructions
3	670-360693-4	EA	\$4.82	\$14.46	AAR/DOT NUMBER PLATE/DECAL, ORDER 3 PER PROJECT. 60 DAY LEAD TIME. SUPPLIED BY STRAN.					
1	165-006505-4	EA	\$1,028.00	\$1,028.00	AC SERVICE, COMPLETE LESS METER BASE, ASSEMBLED ON 30' POLE					
2	670-001321-4	EA	\$246.66	\$493.32	ARM, GATE FIBERGLASS-ALUMINUM 17-24 FT., L&W OR US&S OR SAFETRAN 076600-240017 OR					
13	105-871901-4	EA	\$154.22	\$2,004.81	BATTERY, GNB 265AH MODEL 50A11 SINGLE CELL 2.25 VOLTS					
1	670-503047-4	EA	\$185.75	\$185.75	BELL, CROSSING ELECTRONIC GENERAL SIGNAL, EB-3-360-5 CR 02-044350					
64	165-000341-4	EA	\$10.54	\$674.62	BERM WALL ANCHOR ROD, WITH NUT A.B. CHANCE #6417 (ORDER 4 PER BERM WALL)					
100	165-479603-4	EA	\$7.10	\$710.24	BERM WALL DEADEND, STRANDWISE GRAYBAR# 5201T (ORDER 2 PER POWER SOURCE) OR (26 PER BERM WALL)					
5	670-010851-4	EA	\$1,529.50	\$7,647.51	BERM WALL, ARMCO BIN TYPE II - 12 GAUGE GALVANIZED STEEL 4'-4" HIGH BY 10' LONG (FOR HOUSING)					
4	670-010869-4	EA	\$2,307.77	\$9,231.07	BERM WALL, ARMCO BIN TYPE II 12 GAUGE GALVANIZED STEEL 8'-4" HIGH BY 10' LONG (FOR HOUSING)					
36	215-003229-4	EA	\$11.72	\$421.84	BERM WALL/BACK GUY ANCHOR, A.B. CHANCE# 88135 (ORDER 4 PER BERM WALL) OR (1 PER POWER SOURCE)					
2	670-980689-4	EA	\$63.71	\$127.41	BRACKET HIGH WIND, (RIGID 3'), WIG- 191036, WALRUS TUSK TYPE					
2	670-561375-4	EA	\$1,201.20	\$2,402.40	BRACKET, GATE SAVER, NEG385102GS, SPRING LOADED SWING AWAY ADAPTER FOR FIBERGLASS/ALUMINUM GATES, USE WITH GATE 28' AND LESS					
2	670-000977-4	EA	\$57.98	\$115.95	BRACKET, HIGH WIND SUPPORT HARMON @54-00139, SERRMI @50044 SAFETRAN 076203-518X					
500	465-292862-4	LF	\$1.00	\$501.45	CABLE, U-26 TWISTED, S-23 OKONITE 113-12-3933 SOLID TINNED CONDUCTOR					

APPROVED BY STATE

APPROVED BY RAILROAD

CAR NUMBER

SEAL NUMBER

Exh.B-3, p3

Exh. B-3, p 4

Location: MILMINE		IL	S&E Proj. No.: 04.0557		AFE No.: F01768	Drawing No.: LDFS36134	Page 21			
Store No.: 06920			P.O. Number:		Date Required:		Date Shipped:		Vendor: Safetran Systems Corp.	
Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed		Quantity Returned (Credit)	Special Instructions
300	465-292929-4	LF	\$3.00	\$899.58	CABLE, U.G. 5 COND. NO. 6 AWG SOLID COPPER CABLE TO MEET NS CORP. SPEC. FOR SIGNAL		Date Quan.	Date Quan.		
300	465-939422-4	LF	\$2.56	\$767.55	CABLE, UG 12 CONDUCTOR NO 14 AWG SOLID EACH CONDUCTOR WITH 5/64 IN INSULATION 10 MIL					
300	465-791835-4	FT	\$1.96	\$587.40	CABLE, UG AC ENTRANCE 3C#6-7X OKONITE FMPF-L 094-078 TR W/G 1 X 8 7X W010 BRZ TAPE 600V PRODUCT CODE 206-11-6070					
4	670-001454-4	EA	\$1.64	\$6.55	CLIP, CADWELD TRACK CIRCUIT RETAINER PART NO. SBA206 1/2 DIA 50 CLIPS PER PACKAGE, CR 02-729208					
80	165-544477-4	FT	\$2.00	\$159.65	CONDUIT, 4"x10' PVC, SCHEDULE 80 BELL CONNECTOR AT ONE END, 1/2 PT. GLUE IN KIT 670-123298-4					
4	670-090450-4	EA	\$49.62	\$198.50	CONNECTOR, WELDED FAR RAIL HARMON A1000-2W					
4	670-486646-4	EA	\$40.66	\$162.64	CONNECTOR, WELDED NEAR RAIL HARMON A1000-1W					
2	670-793404-4	EA	\$838.38	\$1,676.76	COUNTERWEIGHT PKAGE, 17-24' GATE S'TRAN S- MECH ONLY, STAINLESS, TO INCLUDE HUB, SUPPORT ARMS					
4	670-760012-4	EA	\$34.90	\$139.59	COVER, FOR 1 WAY FLASHING LIGHT ASSY. 18 OZ. BLACK VINYL COATED NYLON. === TO COVER 2 LAMPS ===					
3	670-080337-4	EA	\$0.73	\$2.18	DECAL, X'ING SIGNAL MALFUNCTION 11" X 4", GATE MOUNT					
3	670-077544-4	EA	\$0.54	\$1.63	DECAL, X'ING SIGNAL MALFUNCTION 6" X 6", MAST MOUNT					
1	670-986650-4	EA	\$361.26	\$361.26	DISPOSAL, CONSTRUCTION DEBRIS AND CLEANING X'ING EQUIPMENT CONTAINER					
1	670-000004-4	EA	\$281.44	\$281.44	FCC LICENSE FOR MONITOR/RADIO					
20	670-000003-4	EA	\$255.85	\$5,117.00	FILL/STONE #57, QUANTITY IS BASED ON TRUCK LOAD PLUS DELIVERY COST					

APPROVED BY STATE

APPROVED BY RAILROAD

CAR NUMBER

SEAL NUMBER

Drawing No.: LDFS36134

AFE No.: F01768

S&E Proj. No.: 04.0557

IL

Location: MILMINE

Vendor: Safetran Systems Corp.

Date Shipped:

Date Required:

P.O. Number:

Store No.: 06920

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed		Quantity Returned (Credit)	Special Instructions
							Date Quan.	Date Quan.		
2	670-015231-4	EA	\$381.69	\$763.37	FOUNDATION, DIXIE, S-2 GATE 56" ASSEMBLED					
1	670-477991-4	EA	\$292.81	\$292.81	KIT, GROUNDING ASSY FOR ALI/S INCLUDES 8 GRD RDS, 200#4 WIRE, 12 4 WIRE ONE-SHOTS, ERICO SBK206					
1	670-123298-4	EA	\$256.93	\$256.93	KIT, HARDWARE SUPPLIES REQUIRED X'ING PKGAGES, WEB CONNECTORS FOR SHUNT(8EA) TAPE, AMP'S, P'GUM PAINT, SLEEVES, TAGS, GLUE, 100 EA WHITE TAGS, JNE CAN BLUE MARKING PAINT ETC....					
2	670-764166-4	EA	\$907.09	\$1,814.18	LAMP ASSY, 5" MAST MTG. 2W IND. 20" BKGRD, FLX-12 W/BULB S'TRAN #042003-487XNS					
6	165-643547-4	EA	\$8.43	\$50.60	LAMP, 18 WATT 10 VOLT S-11 SC BAY 18S11/1SC CLEAR R'WY SIGNAL UJ-71463 GE					
4	255-590880-4	EA	\$15.62	\$62.47	LOCK, AMERICAN LOCK MODEL H-10KA KEYPED ALIKE TO PRIVATE KEYWAY D456 AND STAMPED "NS SIG"					
2	670-637778-4	EA	\$1,055.55	\$2,111.09	MAST, 5" ALUMINUM 13'10" WITH DOUBLE JCT. BOX BASE. S'TRAN P# 070519-11AX.					
2	670-521147-4	EA	\$2,932.81	\$5,865.62	MECHANISM, GATE MODEL S40, WITH CONTACT HEATER, COMPLETE W/RELAY S'TRAN # 074000-W00090					
4	670-001347-4	EA	\$57.98	\$231.90	PACKAGE, HARDWARE SIGN 5 IN. MOUNTING, SERRMI A1250-5, HARMON @200965-000, OR					
1	255-646807-4	EA	\$9.49	\$9.49	PADLOCK, SAFETRAN PART NO. 030399-29X SCREW TYPE FOR CIR CONTROLLER AND BTY. BOX					
1	670-514605-4	EA	\$8.43	\$8.43	PINNACLE, W-C SECT 1-11, 4" & 5" REF K1 110-8 OR SAFETRAN NO. @035045-503X					
40	670-999999-4	FT	\$12.43	\$497.37	PIPE, 24" GALVANIZED CORRUGATED 14 GAUGE STANDARD 20' LENGTHS.					
1	165-902002-4	EA	\$308.00	\$308.00	PROTECTOR, SURGE 120/240VAC, ERICO P/N EPD120/240TDFL					
4	465-002899-4	EA	\$20.88	\$83.51	REEL, CABLE DISPOSABLE FOR CROSSING SIGNAL PACKAGES					

APPROVED BY STATE

APPROVED BY RAILROAD

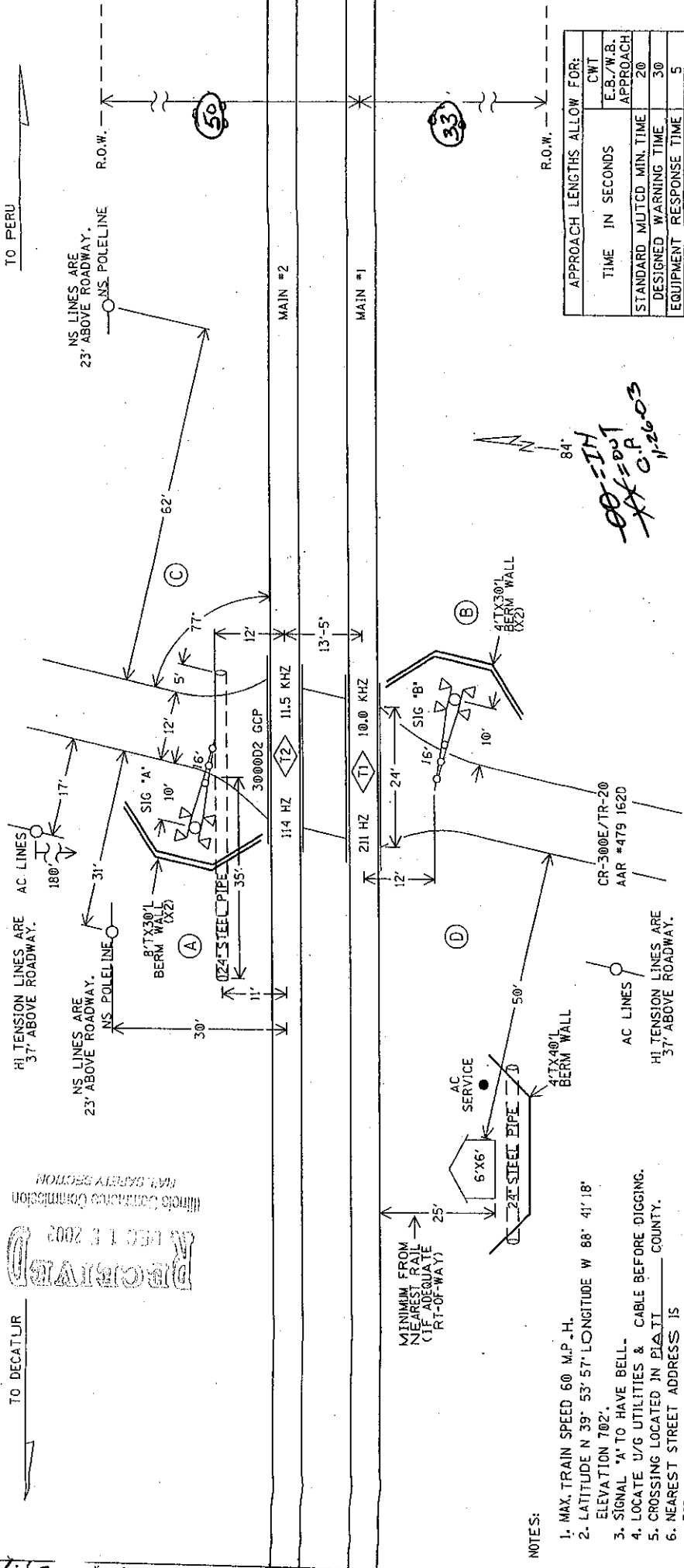
CAR NUMBER

SEAL NUMBER

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RAIL SAFETY SECTION

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NOTES:

1. MAX. TRAIN SPEED 60 M.P.H.
2. LATITUDE N 39° 53' 57" LONGITUDE W 88° 41' 18" ELEVATION 702'.
3. SIGNAL 'A' TO HAVE BELL.
4. LOCATE U/G UTILITIES & CABLE BEFORE DIGGING.
5. CROSSING LOCATED IN PLATT COUNTY.
6. NEAREST STREET ADDRESS IS 767-3000
7. NEAREST INTERSECTING STREET IS CR-700N
8. DISTANCE TO NEAREST INTERSECTING STREET IS 1750 FT.
9. CONTAINER TO BE PLACED AT NS OFFICE ON WILSON ST.
10. THE 24" PIPE IN QUADRANT 'A' IS TO BE EXTENDED 30', AS SHOWN, FOR PROPER SIGNAL PLACEMENT.

(A) (B) (C) (D) = QUADRANT MARKERS

APPROACH LENGTHS ALLOW FOR:

TIME IN SECONDS	CWT	E.B./W.B. APPROACH
STANDARD MUTCD MIN. TIME	20	
DESIGNED WARNING TIME	30	
EQUIPMENT RESPONSE TIME	5	
TOTAL TIME	35	
MAX. SPEED (M.P.H.)	60	
APPROACH DISTANCE (FEET)	3087	

SCALE: 1" = 20'

PROJECT #04.0557 LAYOUT

FILE 061-04.527

DESIGNED BY: MLS 11-03-03
 DRAWN BY: SSC 11-03-03
 CHECKED BY: LAR 11-19-03
 IN SERVICE: _____

FILE NO. _____

FILE R-SHEET

NS NORFOLK SOUTHERN
 OFFICE OF ASST. VICE PRESIDENT
 COMM. & SIGNAL, ATLANTA, GA.
 D-361.34
 DECATUR, IL TO PERU, IN
 MILWAUKEE, IL FLGS AT CR-300E/TR-20
 LAFAYETTE DISTRICT

IN SERVICE _____ SIGNED _____ DATE _____

☐ S&E ENGINEERING COPY
☐ CONSTRUCTION OFFICE COPY
☐ RETURN TO S&E ENG. AFTER COMPLETION
☐ FIELD COPY
☐ RETURN TO CASE AFTER COMPLETION
☐ PROJECT ENGINEER COPY

REVISION INITIALS

PROPERTY UNDER V. CRITICAL PATHWAY